

Abstract of the Disclosure

The present invention relates to a device that supplies electricity to a substrate. In one embodiment, the device includes multiple contacts, a current sensor, and a current regulator. The current sensor is attached to each of the plurality of contacts to sense their electric current. A current regulator controls current applied to each of the multiple contacts in response to the current sensor. In another embodiment, a compliant ridge is formed about the periphery of each contact to seal the contact from undesired chemicals.